

IN THE CLAIMS:

- 1 1. (CURRENTLY AMENDED) A system for reporting information related to prede-
2 terminated storage volumes in a network, each volume including a cluster of physical stor-
3 age disks and defining a logical arrangement of storage space, the system including at
4 least one storage appliance comprising:
5 a monitor process that identifies volumes and retrieves statistical information with
6 respect to the volumes;
7 an interface adapted to enable volumes to be associated with a group; and
8 a reporting process that organizes and displays the statistical information with re-
9 spect to the volumes associated with the group to interested parties.

- 1 2. (ORIGINAL) The system as set forth in claim 1 wherein the reporting process in-
2 cludes an event process for determining identities of the interested parties with respect to
3 a predetermined event condition with respect to the volumes based upon the statistical
4 information and for notifying the interested parties.

- 1 3. (ORIGINAL) The system as set forth in claim 2 wherein the event conditions include
2 parameters of the volume and an associated device of the volume that exceed threshold
3 levels.

- 1 4. (ORIGINAL) The system as set forth in claim 3 wherein the parameters include at
2 least one of a central processing utilization level, a storage disk free space, a storage disk
3 used space, an environmental condition and operational status.

1 5. (ORIGINAL) The system as set forth in claim 3 wherein the event process includes is
2 adapted to e-mail event information to at least some of the interested parties.

1 6. (ORIGINAL) The system as set forth in claim 5 wherein the e-mail of the event in-
2 formation includes web links for use by the interested parties.

1 7. (ORIGINAL) The system as set forth in claim 3 further comprising a database that
2 retains information with respect to the interested parties and the threshold levels for the
3 parameters.

1 8. (ORIGINAL) The system as set forth in claim 1 wherein the each of the volumes are
2 attached to each of a plurality of filers, respectively.

1 9. (ORIGINAL) The system as set forth in claim 1 further comprising a command proc-
2 ess for generating web pages that report the statistical information to at least some of the
3 interested parties.

1 10. (ORIGINAL) The system as set forth in claim 9 wherein the web pages are con-
2 structed and arranged as graphical user interfaces that enable display of the statistical in-
3 formation in a plurality of predetermined windows and boxes within the windows based
4 upon selection criteria entered by the interested parties.

1 11. (ORIGINAL) The system as set forth in claim 10 further comprising alerts displayed
2 on the graphical user interface based upon problems identified by the monitor process
3 with respect to the volumes or devices associated with the volumes.

1 12. (ORIGINAL) The system as set forth in claim 11 wherein the alerts are color-coded
2 based upon severity of the problems, respectively.

1 13. (ORIGINAL) The system as set forth in claim 1 wherein the reporting process is
2 adapted to consolidate the statistical information from one or more volumes on one or
3 more of the volumes on one or more storage appliances into the group.

1 14. (CURRENTLY AMENDED) A graphical user interface for use with a management
2 station or client attached to a network having storage volumes, each volume including a
3 cluster of physical storage disks and defining a logical arrangement of storage space, the
4 graphical user interface comprising:

5 a display window that enables at least one of the volumes to be selectively associ-
6 ated with a desired group of interested parties; and

7 a display window that shows information related to performance and status of the
8 volumes of the group based upon criteria selected by the user.

1 15. (ORIGINAL) The graphical user interface as set forth in claim 14 wherein the infor-
2 mation includes at least one of central processing unit usage, volume disk free space, vol-
3 ume disk used space; environmental conditions; general operational status and events in
4 which an operational parameter exceeds a predetermined threshold.

1 16. (ORIGINAL) The graphical user interface as set forth in claim 15 wherein the
2 events include alerts that are color-coded based upon severity of a problem.

1 17. (ORIGINAL) The graphical user interface as set forth in claim 15 further comprising
2 a link box that directs a user to network or Internet-based utilities in connection with the
3 information.

1 18. (ORIGINAL) The graphical user interface as set forth in claim 14 wherein each dis-
2 play window is formatted as a web page and is displayed on a web browser.

1 19. (CURRENTLY AMENDED) A method for reporting information related to prede-
2 termined storage volumes in a network, each volume including a cluster of physical stor-
3 age disks and defining a logical arrangement of storage space, the method including at
4 least one storage appliance comprising the steps of:
5 identifying volumes and retrieving statistical information with respect to the vol-
6 umes;
7 associating at least one of the identified volumes with a group; and
8 organizing and displaying the statistical information with respect to the volumes
9 associated with the group to interested parties.

1 20. (ORIGINAL) The method as set forth in claim 19 wherein the step of reporting in-
2 cludes e-mailing the statistical information to at least some of the interested parties.

1 21. (ORIGINAL) The method as set forth in claim 20 further comprising formatting a
2 web page containing the statistical information in a predetermined display format.

1 22. (ORIGINAL) The method as set forth in claim 21 further comprising changing the
2 predetermined display format based upon user-selected criteria.

1 23. (ORIGINAL) The method as set forth in claim 19 wherein the step of organizing and
2 displaying includes displaying event information related to predetermined of the statisti-
3 cal information that exceeds desired parameters.

1 24. (ORIGINAL) The method as set forth in claim 23 wherein the step of displaying the
2 event information includes providing color-coded alerts that indicated a severity of a
3 problem associated with the respective event.

1 25. (CURRENTLY AMENDED) A computer-readable medium operating on a computer
2 in a network that includes one or more storage appliance having volumes, each volume
3 including a cluster of physical storage disks and defining a logical arrangement of storage
4 space, the computer-readable medium including program instructions for performing the
5 steps of:

6 identifying storage volumes and retrieving statistical information with respect to
7 the volumes;

8 associating at least one of the identified volumes with a group; and

9 organizing and displaying the statistical information with respect to the volumes
10 associated with the group to interested parties.

1 26. (CURRENTLY AMENDED) A method for organizing and displaying information
2 with respect to one or more volumes on one or more storage appliances attached to a
3 network, each volume including a cluster of physical storage disks and defining a logi-
4 cal arrangement of storage space, each of the volumes having statistical information as-
5 sociated therewith, the method comprising the steps of:

6 establishing a group of one or more of the volumes based upon predetermined re-
7 porting criteria; and

8 consolidating statistical information collected with respect to the volumes in the
9 group for display to interested parties.

1 27. (ORIGINAL) The method as set forth in claim 26 further comprising comparing
2 known predetermined threshold values to parameters of the statistical information gener-
3 ating an event condition when the at least one of the parameters exceeds at least one of
4 the threshold values, respectively.

1 28. (CURRENTLY AMENDED) The method as set forth in claim ~~24~~ 27 further com-
2 prising notifying at least one of the interested parties based upon the event condition us-
3 ing an electronic message.

1 29. (NEW) A system for reporting information related one or more volumes in a net-
2 work, each volume including a cluster of physical storage disks and defining a logical
3 arrangement of storage space, the system including at least one storage appliance com-
4 prising:

5 means for identifying volumes and retrieving statistical information with respect
6 to the volumes;

7 means for associating at least one of the identified volumes with a group; and
8 means for organizing and displaying the statistical information with respect to the
9 volumes associated with the group to interested parties.

1 30. (NEW) The system as set forth in claim 29 wherein the means for reporting further
2 comprises:

3 means for e-mailing the statistical information to at least some of the interested
4 parties.

1 31. (NEW) The system as set forth in claim 29 wherein the means for organizing and
2 displaying further comprises:

3 means for formatting a web page containing the statistical information in a prede-
4 termined display format.

1 32. (NEW) The system as set forth in claim 31 wherein the means for formatting further
2 comprises:

3 means for changing the predetermined display format based upon user-selected
4 criteria.

1 33. (NEW) The system as set forth in claim 29 wherein the means for organizing and dis-
2 playing further comprises:

3 means for displaying event information related to predetermined of the statistical
4 information that exceeds desired parameters.

1 34. (NEW) The system as set forth in claim 33 wherein the means for displaying event
2 information further comprises:

3 means for providing color-coded alerts that indicated a severity of a problem as-
4 sociated with the respective event.

1 35. (NEW) A system for reporting information related one or more volumes in a net-
2 work, each volume including a cluster of physical storage disks and defining a logical
3 arrangement of storage space, the system comprising:

4 means establishing a group of one or more of the volumes based upon predeter-
5 mined reporting criteria; and

6 means for consolidating statistical information collected with respect to the vol-
7 umes in the group for display to interested parties.

1 36. (NEW) The system as set forth in claim 35 further comprising:

2 means for comparing known predetermined threshold values to parameters of the
3 statistical information; and

4 means for generating an event condition when the at least one of the parameters
5 exceeds at least one of the threshold values.

1 37. (NEW) The system as set forth in claim 36 further comprising:

2 means for notifying at least one of the interested parties using an electronic mes-
3 sage. in response to the event condition.